



V8M

Virudhunagar District Common Examinations
Common Third Mid Term Test - February 2023

Standard 8
MATHS

Marks: 50

Time: 1.30 Hrs.

5×1=5**I. Choose the correct answer:**

- 1) Data is a collection of _____.
a) numbers
b) words
c) measurements
d) all the three
- 2) The difference between the largest value and the smallest value of the given data is _____.
a) range
b) frequency
c) variable
d) none of these
- 3) The graphical representation of grouped data is _____.
a) bar graph
b) pictograph
c) pie chart
d) histogram
- 4) Inclusive series is a _____ series.
a) continuous
b) discontinuous
c) both
d) none of these
- 5) Online or Television advertisement influence people on spending decisions by
a) using special music
b) making them think that they need the item
c) using attractive pictures
d) all the above

II. Fill in the blanks:**4×1=4**

- 6) $y = px$ where $p \in z$ always passes through the _____.
- 7) Histogram is a graphical representation of _____ data.
- 8) The range of the data 200, 15, 20, 103, 3, 196 is _____.
- 9) **[Use Atbash cipher that is given in code 3]**
VMTORHS = _____.

III. Say True or False:**4×1=4**

- 10) The points (1, 1), (2, 2), (3, 3) lie on a same straight line.
- 11) Inclusive series is a continuous series.
- 12) Media and business people use pie charts.
- 13) A pie diagram is a circle broken down into component sectors.

IV. Answer any 3 of the following:**3×2=6**

- 14) Represent the following data in ungrouped frequency table which gives the number of children in 25 families.
1, 3, 0, 2, 5, 2, 3, 4, 1, 0, 5, 4, 3, 1, 3, 2, 5, 2, 1, 1, 2, 6, 2, 1, 4
- 15) **Convert the given discontinuous series into continuous series:**

Class	0-5	6-11	12-17	18-23	24-29
Frequency (f)	7	10	9	5	12

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- 16) Frame additive cipher table (key = 4).
- 17) **Find the best buy of the following purchase:**
A pack of 5 chocolate bars for ₹ 175 or 3 chocolate bars for ₹ 114?
- 18) **Find the range of the given data:**
53, 42, 61, 9, 39, 63, 14, 20, 6, 26, 31, 4, 57.

V. **Answer ANY 3 of the following:**

3×5=15

- 19) **Form a continuous frequency distribution table for the marks obtained by 30 students in a X std public examination.**
328, 470, 405, 375, 298, 326, 276, 362, 410, 255, 391, 370, 455, 229, 300, 183, 283, 366, 400, 495, 215, 157, 374, 306, 280, 409, 321, 269, 398, 200.
- 20) **Income from various sources for Government of India from a rupee is given below. Draw a pie chart.**

Source	Corporation tax	IT	Custom	Excise duties	Service tax	Others
Income	19	16	9	14	10	32

- 21) **Draw a histogram for the following data:**

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	5	15	23	20	10	7

- 22) **Match the following:** (a = 00..... z = 25)

- i) Mathematics - 18 20 01 19 17 00 02 19 08 14 13
- ii) Addition - 03 08 21 08 18 08 14 13
- iii) Subtraction - 12 00 19 07 04 12 00 19 08 02 18
- iv) Multiplication - 00 03 03 08 19 08 14 13
- v) Division - 12 20 11 19 08 15 11 15 02 00 19 08 14 13

- 23) **Using the given table find the total special offer price of fresh sweets and bakery products to buy ½ kg laddu, 1 kg cake, 6 pockets of bread.**

Fresh Sweets and Bakery Products			20% off
Laddu (1 kg)	Chocolate cake (1 kg)	Healthy sliced bread	
₹ 245	₹ 550	₹ 20	

VI. **Answer the following:**

2×8=16

- 24) **Construct a rectangle BEAN with BE = 5 cm and BN = 3 cm. Also find its area.** (OR)
Construct a square WEST of a diagonal WS = 7.5 cm. Also find its area.
- 25) **Draw the graph of $y = 2x + 5$.** (OR)
Draw the graph of $y = 5x$.